

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Component Rear Differential Fluid

# PETRO CANADA DURATRAN (--- GAL)

### DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100617		
Sample Date		Client Info		19 May 2024		
Machine Age	hrs	Client Info		15203		
Oil Age	hrs	Client Info		1430		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	110		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	1		
Lead	ppm	ASTM D5185(m)	>25	0		
Copper	ppm	ASTM D5185(m)	>100	4		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	110	86		
Barium	ppm	ASTM D5185(m)	0.0	0		
Molybdenum	ppm	ASTM D5185(m)	0.0	0		
Manganese	ppm	ASTM D5185(m)	1	<1		
Magnesium	ppm	ASTM D5185(m)	13	21		
Calcium	ppm	ASTM D5185(m)	3610	3265		
Phosphorus	ppm	ASTM D5185(m)	1192	1092		
Zinc	ppm	ASTM D5185(m)	1455	1246		
Sulfur	ppm	ASTM D5185(m)	2641	3183		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	11		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	3		



## **OIL ANALYSIS REPORT**

70 Abn	ormal	 	 	 	 	
65						
5 60 - E 55 - <b>Base</b> 3 50 -	,					
55- 0		 	 	 	 	
45 - Abn	ormal	 	 	 	 	
40						
35						

VISUAL White Metal Yellow Metal Precipitate		method				
Yellow Metal			IIIIII/base	current	history1	history
	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>.2	NEG NEG		
Free Water	scalar	Visual*				
FLUID PROPE		method	limit/base	current	history1	history
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	37.1		
SAMPLE IMAG	GES	method	limit/base	current	history1	history
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Iron (ppm)				Lead (ppm)		
2000 Severe			150			
Ē.1000			E 100			
Abnormal			50	Abnormal		
May19/24				19/24		
				0		
May			May19/24	May19		
Aluminum (ppm)				Chromium (p	pm)	
Aluminum (ppm)			30	Chromium (p	pm)	
Aluminum (ppm)			30	Chromium (p	pm)	
Aluminum (ppm)				Chromium (p	pm)	
Aluminum (ppm)			30 <u>E</u> 20 10 0	Chromium (p	pm)	
Aluminum (ppm)			30 <u><u><u></u></u>20 <u>10</u></u>	Chromium (p	pm)	
Aluminum (ppm)			30 20 4 10 7 76 (//eW	Abnomal 	pm)	
Aluminum (ppm)			30 4 10 +72/61/keW 300	Abnormal bilicon (ppm)	pm)	
Aluminum (ppm)			30 4 10 +72/61/keW 300	Abnormal bilicon (ppm)	pm)	
Aluminum (ppm)			30 40 40 40 40 40 40 40 40 40 4	Abnormal bilicon (ppm)	pm)	
Aluminum (ppm)			30 40 40 40 40 40 40 40 40 40 4	Abnormal Silicon (ppm)	pm)	
Aluminum (ppm)			30 wd 10 +7/61/keW 300 wd 100 100	Abnormal Severe Abnormal P2/61/APW Silicon (ppm) Severe Abnormal	pm)	
Aluminum (ppm)			30 47 47 47 47 10 47 10 47 10 100 47 10 100 100 100 100 100 100 100	Abnormal Silicon (ppm)	pm)	
Aluminum (ppm)			30 Ed. 10 +72/61/kew 300 472/61/kew 4000	Abnormal Silicon (ppm) Severe Abnormal Silicon (ppm) Severe Abnormal Additives	pm)	
Aluminum (ppm)			30 Ed. 10 +72/61/kew 300 472/61/kew 4000	Abnormal Silicon (ppm) Severe Abnormal Silicon (ppm) Severe Abnormal Additives		
Aluminum (ppm)			30 47 47 47 47 10 47 10 47 10 100 47 10 100 100 100 100 100 100 100	Abnormal Abnormal Abnormal Abnormal Foreiner Abnormal Abnormal Abnormal Abnormal Actives		
Aluminum (ppm)			30 Ed 10 +72/61/kew 4000 4000 4000 100 100 100 100	Abnormal Abnormal Abnormal Abnormal Foreiner Abnormal Abnormal Abnormal Abnormal Actives	s	

To discuss this samp Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

T: (604)892-5604 F: (604)892-5238 Contact/Location: Dean Imbeau - GFL575 Page 2 of 2

Report Id: GFL575 [WCAMIS] 02636997 (Generated: 05/22/2024 14:33:44) Rev: 1

CALA

ISO 17025:2017

Accredited Laboratory